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10/530365

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Yoshio BANDO et al. : Docket No. 2005_0516A
Serial No. 10/530,365 :
Filed April 6, 2005 :

TEMPERATURE SENSITIVE
ELEMENT, PROCESS FOR PRODUCING
THE SAME, AND NANOTHERMOMETER
[Corresponding to PCT/JP2003/015548
Filed December 4, 2003]

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEES FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☒ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application PCT/_____;
and/or
- ☐ each reference previously cited in prior parent application Serial No.
_____.

1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

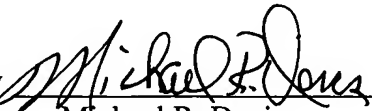
3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
 - b. ☐ a foreign patent office search report (in the English language) submitted herewith,
 - c. ☒ the concise explanation contained in the specification of the present application at pages 1-2,
 - d. ☐ the concise explanation set forth in the attached English language abstract,
 - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☒ A foreign patent office search report (International Search Report) citing one or more of the references is of record.
6. ☒ Comments:

The PTO-1449 form attached to the Information Disclosure Statement filed April 6, 2005 cites the reference in the International Search Report. This citation includes the designation "Vol. 45", but the correct designation is "Vol. 415", as apparent from the attached copy of the reference. [Also note non-patent document 2 cited on page 2 of the present application.] The PTO-1449 form attached hereto has the correct cite for this reference.

Also please note that the U.S. '343 cited on the attached PTO-1449 form corresponds to the JP '806 reference cited on this form, the latter being cited as patent document 1 on page 2 of the present specification, which is discussed on page 1 of the specification.

Respectfully submitted,

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July 13, 2005

INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: July 13, 2005

ATTY DOCKET NO.
2005_0516ASERIAL NO.
10/530,365APPLICANT
Yoshio BANDO et al.FILING DATE
April 6, 2005

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	2001/0051367	12/2001	Kiang			
	AB	2002/0055010	5/2002	Gao et al.			
	AC	5,457,343	10/1995	Ajayan et al.			
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AJ	6-227806	8/1994	JP				
	AK							
	AL							
	AM							
	AN							

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	Yihua Gao, Yoshio BANDO, "Carbon nanothermometer containing gallium", Nature, Vol. 415, page 599, February 7, 2002.
	AP	Yihua Gao, Yoshio BANDO, and Dmitri GOLBERG, "Melting and expansion behavior of indium in carbon nanotubes", Applied Physics Letters, Vol. 81, pages 4133-4135, November 25, 2002.
	AQ	P.M. Ajayan and Sumio Iijima, "Capillarity-induced filling of carbon nanotubes", Nature, Vol. 361, pages 333-334, January 28, 1993.

EXAMINER

DATE CONSIDERED